Corn Planting Rate

Trial ID: 2021-CRNP06 — R.M. of Stanley

Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in corn.

TRIAL INFORMATION	
Location	Winkler
Previous Crop	Potato
Soil Texture	Coarse Loams
Tillage	Conventional Tillage
Planting Date	May 04, 2021
Fertilizer (N-P-K-S)	91N 28P 63K
Variety	DKC31-85RIB
Row Spacing	30”
Planting Rate (seeds/ac)	30.8K, 33.8K, 36.8K & VR
Harvest Date	October 25, 2021

SOIL PROPERTIES†

N 0-24”	P (ppm)	K (ppm)	% O.M.
92	32	252	2.4

†Nutrient values prior to spring seeding

PLANT STAND @ V2

Planting Rate (seeds/ac)	30,800	33,800	36,800	VR
Plants/acre	28,250	32,750	33,750	34,000

PRECIPITATION†

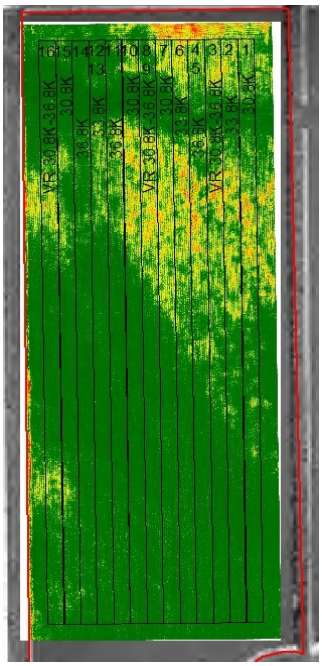
	May	June	July	Aug	Total
Rainfall	40	43	24	97	**205**
Normal	59	77	67	77	**280**

†Growing season precipitation (mm) - May 01—Aug 31

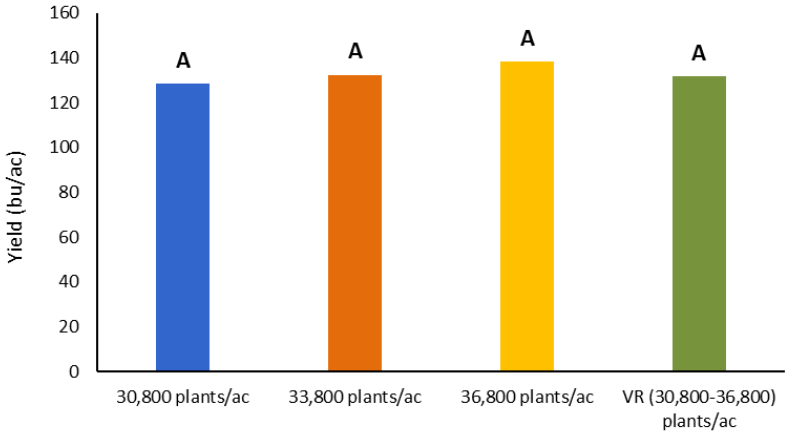
OVERALL YIELD

	Mean (bu/ac)
30,800 plants/ac	128.4^{A}
33,800 plants/ac	132.4^{A}
36,800 plants/ac	138.4^{A}
VR (30,800-36,800) plants/ac	131.8^{A}
P-Value	0.5318
CV	7.07%
Significance	**No**

FIELD IMAGE



YIELD BY TREATMENT



Summary: There was no significant difference in yield or plant stands at V2 between the 30,800, 33,800, 36,800 and variable rate average (30.8K-36.8K) seeds/acre planting rates. Rainfall was well below average throughout the growing season.

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